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NOTICE OF ALLOWANCE AND FEE(S) DUE

23598

7590

02/05/2009

BOYLE FREDRICKSON S.C. 840 North Plankinton Avenue MILWAUKEE, WI 53203

EXAMINER

WEINSTEIN, LEONARD J

ART UNIT PAPER NUMBER

3746

DATE MAILED: 02/05/2009

APPLICATION NO.	APPLICATION NO. FILING DATE FIRST NAMED INVENTO		ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/655,340	09/04/2003	Grigori Lishanski	423.008	6105

TITLE OF INVENTION: UNIVERSAL VIBRATORY PUMP

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	05/05/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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BOYLE FREE 840 North Plank MILWAUKEE,	/2009	S	Certificate of Mailing or T I hereby certify that this Fee(s) Transmittal is States Postal Service with sufficient postage for addressed to the Mail Stop ISSUE FEE add transmitted to the USPTO (571) 273-2885, on			s) Transmittal is being ficient postage for firs ISSUE FEE address	being deposited with the United or first class mail in an envelope lress above, or being facsimile		
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									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR		ATTO:	RNEY DOCKET NO.	CON	NFIRMATION NO.
10/655,340 TITLE OF INVENTION	09/04/2003 i: UNIVERSAL VIBRA	TORY PUMP	Grigori Lishanski				423.008		6105
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nonprovisional	YES	\$755	\$300		\$0		\$1055		05/05/2009
EXAM	EXAMINER ART UNIT CLASS-SUBCI		CLASS-SUBCLASS						
WEINSTEIN,	LEONARD J	3746	417-415000	_					
"Fee Address" ind PTO/SB/47; Rev 03-(Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Un	ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Comp	" Indication form	data will appear on th	ngle fi or age attorne be pri type) e pate an ass	y, irm (having as a nt) and the name eys or agents. If a inted. nt. If an assigne- signment.	memb es of uj no nam	er a 2	ocume	nt has been filed for
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent):	☐ In	ndividual 🖵 Co	orporati	on or other private gro	oup ent	tity 🗖 Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 						
5. Change in Entity Sta	tus (from status indicated is SMALL ENTITY state		☐ b. Applicant is no	longer	claiming SMAI	L ENT	TTY status. See 37 CI	FR 1.2	7(g)(2).
NOTE: The Issue Fee an	d Publication Fee (if req	uired) will not be accepte tes Patent and Trademark	d from anyone other tha						
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840 North Plankin			ART UNIT	PAPER NUMBER		
MILWAUKEE, WI 53203			3746			
			DATE MAILED: 02/05/2009			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 761 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 761 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	10/655,340	LISHANSKI ET AL.		
Notice of Allowability	Examiner	Art Unit		
	LEONARD J. WEINSTEIN	3746		
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this or other appropriate communica GHTS. This application is subjection	s application. If not included ation will be mailed in due course. THIS		
1. This communication is responsive to <u>01/08/2009</u> .				
2. \boxtimes The allowed claim(s) is/are <u>3,4,6,8,10-12,14 and 16</u> .				
 Acknowledgment is made of a claim for foreign priority una)	been received. been received in Application N	o		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		eply complying with the requirements		
 A SUBSTITUTE OATH OR DECLARATION must be subminiformal PATENT APPLICATION (PTO-152) which give 				
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.			
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Review(F	PTO-948) attached		
1) ☐ hereto or 2) ☐ to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in t				
DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I				
Attachment(s)				
1. Notice of References Cited (PTO-892)	_	nal Patent Application		
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Sumn Paper No./Mai	l Date		
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. 🛛 Examiner's Am			
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		tement of Reasons for Allowance		
	9. Other			
/Leonard J Weinstein/ Examiner, Art Unit 3746	/Devon C Kramer/ Supervisory Patent	t Examiner, Art Unit 3746		
	i i			

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DETAILED ACTION

1. This office action is in response to the amendment of January 8, 2009.

2. The examiner acknowledges that the applicant as incorporated allowable subject matter into independent claim 10 and has amended claims 3, 4, 6, 8, 11, 12, 14, and 16 to depend from claim 10.

- 3. The examiner notes that claims 1, 2, 7, 9, 13, 15, and 17-20 have been canceled.
- 4. The instant application is in condition for allowance and the amendments to the claims will be entered.

EXAMINER'S AMENDMENT

5. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

- a. Claim 1
 - i. Recites the limitation of "the interior space though and inlet" and will be amended to be --- the interior space through and inlet ---
 - ii. The claim contains the minor grammatical error of "the housing,; and" and will be corrected to be --- the housing; and ---
- b. Claim 8
 - i. Recites the limitation of "wherein the plate is positioned within the outlet end." There is no antecedent basis for the element of an "outlet

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end" and if properly introduced to be "wherein the plate is positioned within an outlet end" one of ordinary skill in the art would not be able to ascertain if the "outlet end" referred to a rod, a pump chamber, or an outlet chamber. The examiner notes that a limitation directed toward "an outlet end of the outlet chamber" would not be commensurate in scope with the embodiments of the instant invention that amended claim 10 is generic to. Specifically this limitation would be directed toward the embodiment of figure 5. The embodiment of figure 5 does not include the specific structural components for a plate at the end of a rod that are generic to the embodiments of figures 2 and 3 to which the limitations of claim 10 are directed to. The examiner notes that claim 8 depends from claim 10 and claim 10 properly introduces the element of an "inner end" of and "outlet chamber." The examiner further notes that if the rod 6 of the instant invention where extended so that plate 31 (of fig. 2) or plate 41 (of fig. 3) were in mating relationship with their respective outlet chambers, a portion of each plate, as defined by elements 33 and 42 respectively, would be dispose within an inner end, elements 30 and 40 respectively, of an outlet chamber. Therefore the limitation of:

- "wherein the plate is positioned within the outlet end"
 will be amended to be:
 - --- wherein the plate is positioned within the inner end of the outlet chamber ---

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Allowable Subject Matter

2. Claims 3, 4, 6, 8, 10-12, 14, and 16 are allowed.

- 3. The following is an examiner's statement of reasons for allowance: the prior art fails to teach the limitations of a vibratory pump comprising a rigid pumping chamber with a rod extending there through, the rod operably connected to a vibration mechanism on one end and a plate which mates with an outlet chamber within a pumping chamber on an opposite end, and an inlet to a pump chamber extends out of a pump chamber to be inserted into a fluid in a combination wherein the plate has a central portion with a first diameter and outer portion with a second diameter larger than the first diameter, the outlet chamber has an inner and outer end, the inner end being within the pumping chamber and having a central opening that has a larger diameter than a first diameter portion of the plate and is sealingly engaged with a sealing member of an outer portion of the plate that is at the end of the rod opposite to the vibrating mechanism.
- 4. The prior art of record includes Lishanski et al. US 6,428,289 and Nottingham et al. US 5,716,007. Lishanski teaches the general subject matter of a vibratory pump with a rod extending through a pump chamber having a plate on one end that engages a central opening within an outlet chamber that is disposed within a pumping chamber. Nottingham teaches a fluid dispenser with a rod having a plate on one end (and a diaphragm) that reciprocates up and down to draw fluid into a pump chamber through a fluid inlet that extends out from a pump chamber into the fluid that is to be pumped. Lishanski is the closest prior art and fails to teach the fluid inlet extending out of a pump

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chamber that is taught by Nottingham. A combination of the two references would not teach the specific details of a vibratory pump with fluid inlet extending from a pump chamber into a fluid to be pumped, a rod connected to a vibrating mechanism on one end, and a plate at the end of the rod that includes a central portion with a diameter that is less than an outer portion which has a sealing member that engages an inner end of an outlet chamber disposed within a pump chamber. The specific structural details of the plate member in combination with aspects of the invention that were known in the art, forms the basis for the determination of novelty and allowance of the instant application.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LEONARD J. WEINSTEIN whose telephone number is (571)272-9961. The examiner can normally be reached on Monday - Thursday 7:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Devon Kramer can be reached on (571) 272-7118. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Devon C Kramer/ Supervisory Patent Examiner, Art Unit 3746

/Leonard J Weinstein/ Examiner, Art Unit 3746